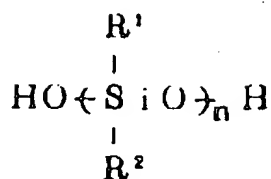


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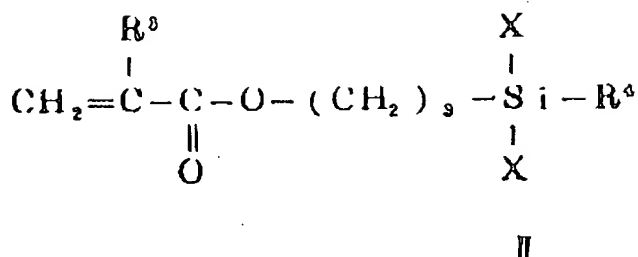


APPLICANT : TOAGOSEI CHEM IND CO LTD;

INVENTOR : KATO HIROYUKI;

INT.CL. : C08F299/02 C08F220/02

TITLE : PREPARATION OF GRAFT
 COPOLYMER BY RADICAL
 COPOLYMERIZATION



ABSTRACT : PURPOSE: To obtain easily the titled copolymer having stability to hydrolysis, capable of controlling a molecular weight, by condensing a specific silicone with an acrylic compound to give an acryl modified silicone, copolymerizing it with a radically polymerizable monomer.

CONSTITUTION: In a solvent, a silicone (e.g., α,ω -dihydroxy-dimethylpolysiloxane, etc.) shown by the formula I (R^1 and R^2 are 1-10C monofunctional aliphatic hydrocarbon, phenyl, or monofunctional halogenated hydrocarbon; n is ≥ 1) is condensed with an acrylic compound (e.g., γ -methacryloxypropylmethyldichlorosilane, etc.) shown by the formula II (R^3 is H or methyl; R^4 is methyl, ethyl, or phenyl; X is Cl, methoxy, or ethoxy) to give an acryl modified silicone. 10-90pts.wt. acryl modified silicone is copolymerized with 90-10pts.wt. radically polymerizable monomer (e.g., styrene, etc.) in the presence of a polymerization initiator (e.g., azobisisobutyronitrile, etc.).

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